

APPENDIX E

CITY OF DANBURY
WATER DEPARTMENT
RULES AND REGULATIONS



RULES AND REGULATIONS

CITY OF DANBURY WATER DEPARTMENT

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RULES & REGULATIONS

CITY OF DANBURY WATER DEPARTMENT

The following rules and regulations are part of the contract between the City of Danbury Water Department and its customers:

A. DEFINITIONS - (In all definitions, the interpretation of the City shall govern):

- 1) City - the City of Danbury Water Department.
- 2) Customer - any person, firm, corporation, company, association, governmental unit being the owner of property furnished water service by the City.
- 3) Premises - shall include but is not restricted to the following:
 - a) a building or combination of buildings leased or owned by one customer, in a common enclosure, occupied by one family as a residence or one corporation or firm as a place of business, or
 - b) a building owned or leased by one customer having a number of apartments, offices, or lofts which are rented to tenants using in common one hall and one or more means of entrance, or
 - c) a building two (2) or more stories high under one roof owned or leased by one customer and having an individual entrance for the ground floor occupants and one for the occupants of the upper floors, or
 - d) a combination of buildings owned by one customer, in one

common enclosure, none of the individual buildings which is adopted to separate ownership, or

- e) a public building, or
 - f) a single plat, used as a park or recreational area, or
 - g) an individually owned unit that is part of a building complex.
- 4) Meter - any device for measuring the quantity of water used as a basis for determining charges for water service to the customer. This would include the remote reading device and wire.
 - 5) Property - all facilities owned and operated by the City.
 - 6) Main - a water pipe owned, operated, maintained by the City which is used for the purpose of transmission or distribution of water but is not a service pipe.
 - 7) Tap - the fitting installed at the main to which the service pipe is connected.
 - 8) Service Pipe - the pipe that runs between the main and the customer's place of consumption including fire lines.
 - 9) Service Connection - that portion of the service pipe from the main to and including the curb stop.
 - 10) Customer Service Line - the portion of the service pipe from the curb stop to the customer's place of consumption. Where no curb stop exists, the customer's service line shall be the entire service pipe.
 - 11) Fire Service Line - a service pipe used exclusively for fire protection purposes.
 - 12) Combination Service Line - a service pipe used for both fire protection and domestic, commercial or industrial use.
 - 13) Code of Ordinances - current Code of Ordinances of the

City of Danbury.

- 14) Water Main Extensions - a water main and/or related water facilities that are constructed in an area where no service or inadequate service exists but shall not include water system improvements made by the Department of Public Utilities.

B. APPLICATION FOR SERVICES:

- 1) Application for water service shall be made by each property owner on forms furnished by the City in accordance with the provisions of section J-3g.
- 2) Resumption of water service from a tap or service connection which has been discontinued requires a new application.
- 3) No application for water service will be approved from a property owner having delinquent water and/or sanitary sewer accounts.
- 4) Applications for replacement connections will be governed by the provisions of section J-3e.
- 5) No application for water service will be approved for a property which requires a water main extension unless and until all requirements of the Danbury Code of Ordinances and the water main extension approval process are met. Reference is made to Section W of these regulations.
- 6) After the application for water service is approved by the City, the appropriate connection charge is to be paid by all new customers regardless of whether service is rendered through a simple connection or as a result of a water main extension. Reference is made to section 21.48 of the Danbury Code of Ordinances.

C. LIABILITY FOR CHARGES: The property owner shall be liable for all charges for water service unfit the service has been discontinued to the City's satisfaction pursuant to a written request fro. the property owner. Service will be discontinued in accordance with section J-2.

D. DENIAL OR DISCONTINUANCE OF. SERVICE: The City reserves the right to deny or discontinue service of a customer for the following reasons:

- 1) Tampering with a water meter or the equipment furnished and owned by the City.
- 2) Failure to permit the City reasonable access to meters and related equipment.
- 3) Nonpayment of a water and/or sanitary sewer bill provided the City shall have made a reasonable attempt to effect collection.
- 4) Failure to furnish such service, equipment, permits, certificates or right of way as shall have been specified by the City as a condition of obtaining service, or if such equipment or permission is withdrawn or terminated.
- 5) A condition determined by the City to be hazardous.
- 6) Use by the customer of equipment in such a manner as to adversely affect the City's equipment or the City's service to others.
- 7) When the City has discovered that by fraudulent means a customer has obtained water service or has diverted the water service to unauthorized use or has obtained water service without same being properly registered upon the water meter.
- 8) When the water is used for a purpose not described in the application and/or permit.

- 9) Failure of the customer to fulfill the contractual obligations for service or facilities.
- 10) Violation or non-compliance with the rules and regulations of the City.
- 11) For failure to comply with the water main extension approval process when required.
- 12) The method and manner of termination of service in cases involving non-payment of a delinquent account shall conform to the requirements of Section 16-3-100 of the Regulations of Connecticut State Agencies as the same may be amended from time to time. The provisions of said section relating to termination of service for non-payment of a delinquent account are therefore incorporated herein by reference and made a part hereof as if they had been set forth fully herein.

E. TEMPORARY SERVICE

- 1) When the City renders temporary or intermittent service to a customer it will require that the customer bear all cost of installing and removing the temporary facilities including any metering device.
- 2) The charge for water service for temporary or intermittent service shall not be less than the applicable minimum charge for a period of not less than twelve (12) months.

F. METERED SERVICE:

- 1) Obligatory Meter Service - Metered services are obligatory for all customers except as specified under section G.
- 2) Charges - There is a minimum charge for water service which is

determined by the size of the meter and includes a specific water usage allowance. The water use in excess of the minimum allowed is charged in accordance with the scheduled rates published in the Code of Ordinances. All metered water whether used or wasted, shall be paid for by the customer.

3) Installation of meters –

- a) Water meters one (1) inch in size and smaller are the property of the City and will be furnished and installed without charge to the customer except for temporary or intermittent service which is covered under Section E.
- b) Water meters greater than one (1) inch in size installed after (date) shall become the property of the City and will be furnished and installed by the customer at no cost to the City.
- c) Water meters greater than one (1) inch in size installed prior to (date) will remain the property of the customer until such time as the customer complies with section F-8.
- d) The customer is responsible for providing all other piping and appurtenances and for having them properly installed and ready to receive the meter, including, but not limited to the provisions of sections F-3(h) and F-3(i).
- e) Separate buildings will be metered separately and billed separately.
- f) The City will not permit more than one (1) meter per building for the purpose of measurement of domestic water for billing purposes.
- g) Meter vaults and pits are the property of the customer and the customer is responsible for their installation, maintenance

and repair as necessary and as required by the City. Meter vaults and pits shall remain free of standing water and plans must be approved by the City prior to installation.

h) For meters one and a half (1-1/2) inches in size and larger, a one and a half (1-1/2) inch test tee and an appropriately sized meter strainer shall be installed.

i) Isolation valves shall be installed on the inlet and outlet sides of the meter set in accordance with the specifications of the City. The inlet valve referred to herein may be the same valve noted under Section J-4-e of these Rules and Regulations.

4) Location of Meters -

a. The meter, wire, and remote device locations shall be approved by the City.

b) Meters shall be installed indoors whenever possible in a location provided by the customer.

c) When the premises is supplied by a service pipe that is judged by the City to be unusually long, an outside meter setting will be required to be furnished by the customer.

d) If the City determines that alteration or obstructions have rendered a meter inaccessible or inadequately protected, it will require that such a meter be made accessible and/or be adequately protected at the customer's expense.

e) Meters shall be accompanied by the appropriate remote reading device when specified by the City.

5) Maintenance of Meters - All meters one (1) inch and smaller in size will be maintained by the City at no cost to the customer. Meters larger than one (1) inch in size which are owned by the City will be maintained by the City at the City's expense. Meters larger

than one (1) inch in size which are owned by the customer will be maintained by the City at the customer's expense. Damage to all meters due to freezing, hot water, or external causes shall be paid for by the customer and the customer shall be liable to the City for all damage to said meter which results from the customer's negligence.

6) Accuracy of Meters.

a. All meters will be tested for accuracy before installation and periodically thereafter. No meter will be placed or kept in service unless it registers within the limits of accuracy specified by the State of Connecticut Department of Public Utilities Control.

b) The City will, upon written request of a customer, test a meter for accuracy at the customer's premises. The test shall be performed at the customer's expense. The City will furnish a written report of the test to the customer. In the event the results of the meter test demonstrate that the meter is not registering accurately and falls outside the limits set by the State of Connecticut Department of Public Utilities Control, there will be no charge applied for that particular test.

c) All meters one (1) inch in size and smaller shall be tested by the City at no cost to the customer on a frequency specified by the Department of Public Utilities Control.

d) All meters larger than one (1) inch shall be tested by the City on a frequency specified by the State of Connecticut Department of Public Utilities Control. If the meter is owned by the City, the test will be performed at the City's expense. If the customer owns the meter, the test will be performed at the

customer's expense.

- e) The provisions of this section do not apply to fire service line meters.
- 7) Tampering With Meters - Meters shall not be opened, removed or interfered with in any way. In all cases where it has been determined by the Public Utilities Department that a meter has been tampered with, the Superintendent of Public Utilities shall have the authority to estimate the quantity of water consumed for which the consumer has not been billed as the result of such tampering and to charge the consumer for this estimated quantity at metered rates. All costs to repair a meter which has been tampered with shall be paid to the City of Danbury by the property owner.
- 8) Size and Type of Meter -
 - a) The size and type of the meter shall be approved by the City based on information furnished by the customer.
 - b) Meters are to be Neptune ARB (Automatic Reading and Billing) unless otherwise approved by the City.
 - c) All meters shall read in gallons.

G. FLAT RATE SERVICE:

- 1) Flat rate service is available only when, in the opinion of the City, metered service is not applicable.
- 2) Upon written notification from the City, a customer is required to change from flat rate service to metered service.
- 3) Establishment of the Rate - The flat rate is established in the Code of Ordinances for each specific group of fixtures. Fixture charges are established in the Code of Ordinances.
- 4) Limits on Water Use - A flat rate customer is required:

- a) To notify the City prior to making any change in fixtures or use. Consequent modifications in the rate, if any, will be prorated from the date of change. No fixture will be considered as discontinued until it has been disconnected, removed, and inspected by the City.
- b) Not to run water to prevent pipes or fixtures from freezing.
- c) To maintain their plumbing and service line in good repair and to make repairs properly and promptly.
- d) Not to waste water.
- e) Not to use water for watering lawns or gardens nor for washing vehicles.

H. BILLING AND PAYMENT:

- 1) Bills shall be rendered to each customer quarterly.
- 2) Payments - All bills are payable within thirty (30) days of date rendered. The City may discontinue service after due notice to the customer until the bill is paid. Where it is necessary for the City to excavate in order to discontinue service to a delinquent customer, the delinquent bill and disconnection charge based upon the cost of the work, must be paid before the service is restored. Restoration of service shall be accomplished in accordance with Section B of these Rules and Regulations.
- 3) Customer Deposit - The City may require from any customer or prospective customer a deposit to guarantee payment for bills. Such deposit shall be based on an amount equivalent to the estimated maximum bill for a one (1) year period.
- 4) Adjustments of Bills - Bills which are incorrect due to meter or

billing errors shall be adjusted as follows:

- a) Whenever a meter in service is tested and found to have over-registered more than two percent (2%) the City shall adjust the customer's bill for the excess amount paid as determined below:
 - i) If the time at which the error first developed or occurred can be definitely determined, the amount overcharged will be based thereon.
 - ii) If the time for which the error first developed or occurred cannot be definitely determined, it will be assumed that the over-registering existed for a period equal to one half (1/2) of the time since the meter was last tested. If more than one (1) customer received service through the fast meter during the period for which the refund is due, the refund will be paid to the present customer only for the time during which he received service through the meter.
- b) Whenever a meter in service is found not to register, the City shall render an estimated bill. The City shall estimate the charge for water used by averaging the amount registered over the four (4) quarters preceding the period of non-registration adjusting for any changes in the customer's usage. When it is found that the error in the meter is due to some cause, the date for which can be fixed, the overcharge or the undercharge shall be computed back to, but not beyond, such date.
- c) Billing adjustments due to fast meters shall be calculated on the basis that the meter is one hundred percent (100%) accurate for all flow rates. For the purpose of billing adjustment, the meter error in terms of percent will be one half (1/2) of the algebraic sum of the percent error at maximum test plus percent error at

intermediate test flow. This meter error is multiplied by the usage in question and the customer's bill will be adjusted in compliance with Section H-4a of these Rules and Regulations.

d) When a custom has been overcharged as a result of an incorrect reading of the meter, incorrect calculation of the bill or other reason, the amount of the overcharge shall be adjusted, refunded, or credited to the customer.

e) When a customer has been undercharged as , result of an incorrect reading of the meter, incorrect calculation of the bill, or other similar reason, the amount of the undercharge shall be billed to the customer.

I. ACCESS TO CUSTOMER'S PROPERTY:

- 1) The City has the right of access to the customer's premises to read, inspect, repair, replace, or service meters and accessory equipment. The customer agrees to grant permission for such access by properly identified employees of the City.
- 2) If a City representative cannot gain access to a premises to read a meter, the water charge for the current bill will be estimated.

J. SERVICE PIPE:

- 1) New Taps – All new taps will be made by the customer at the customer's expense. The City will determine the size on the basis of information furnished by the customer
- 2) Tap Shut Offs - When a premises is to be abandoned or demolished or a service pipe is to be abandoned, the property owner agrees to request permission in writing to close the tap and physically disconnect the service pipe from the tap. All cost incurred in making the tap shut off shall be borne by the customer.

3) Service Connections:

- a) The property owner will furnish materials, install, own and maintain all service connections.
- b) The customer shall pay the full cost of the new service connection including all excavation, backfill, removal, and replacement of paving, walks, curbs, piping, taps, valves, curb boxes, etc.
- c) All excavation, backfill, removal and replacement of paving, walks, curbs, etc. shall be done in accordance with the City specifications and in conformity with all applicable State and municipal regulations.
- d) Service connections installed prior to the effective date of this regulation will remain the property of and be maintained by the customer.
- e) Replacements - The determination of a necessity to replace a service connection will in all cases be made by the City. Such replacement will be furnished, installed, owned and maintained by the customer at his expense including the cost of excavation, backfill, removal and replacement of paving, walks, curbs, piping, taps, valves, etc.
- f) When a request is made to increase the size of an existing service connection, such a request shall be governed by the provisions of Section J-1 and Section J-3 (a through c). The existing tap shall be shut off in accordance with provisions of Section J-2.
- g) Applications:
 - i) All applications for service connections two (2) inches or

smaller in diameter must be made to the City by the property owner of the premises to be supplied in accordance with the provisions of Section B. The applicant agrees to abide by the Rules and Regulations of the City.

- ii) Application for service connections larger than two (2) inches in diameter must be made to the City by the property owner of the premises to be supplied in accordance with the provisions of Section B. Such application shall include a sketch showing the desired size and location of the proposed service pipe. The applicant shall furnish his estimated requirements for fire flow, pressure, rate of consumption and such other pertinent data that will assist the City in its review of the application.
 - iii) Upon receipt of a completed application, the City will review its contents and render a decision within thirty (30) days excluding weekends and holidays.
 - iv) In the event the City finds the application to be incomplete, the City will notify the applicant of the reason(s) and what additional data must be submitted. Upon receipt of the necessary data, the City will proceed in accordance with Section J-3-g-iii of these Rules and Regulations.
- h) Permits:
- i) No excavation for the purpose of connecting to a water main is permitted without the approval of the application (Section J-3-g of these Rules and Regulations) and the issuance of a written permit by the City.
 - ii) No permit for a service connection will be issued until an agreement is signed by the applicant promising to pay for

the disconnection of any customer-owned service connections formerly supplying the property.

- iii) No permit for a service connection will be issued if the applicant is a present customer who is in arrears on a water and/or sanitary sewer bill for another premises in the City.
- iv) A permit shall expire one (1) year from the date it was issued. Permits may be extended by the applicant upon written request prior to the expiration date. The extension shall not exceed one (1) year.
- v) Prior to the expiration date, a refund of the connection charge submitted may be made upon written request by the applicant.
- vi) A new application and permit along with payment of the connection charge at the current rate is necessary in order to re-apply for a permit at a location where a previous permit has expired. This re-application must be consistent and in compliance with the then current Rules and Regulations of the City and the Code of Ordinances.
- vii) A permit may be revoked at any time if it is found that the information provided on the application was incorrect.
- viii) Connection charges shall be as designated in the City of Danbury Code of Ordinances.
- ix) Permits shall be maintained at the site of the work being done and shall be shown upon request to any properly identified employee of the City.
- i) Size - The City will determine the size of the service connection on the basis of the information provided by the applicant.

j) Service connection for vacant lot - A service connection will not be made where there is no structure on the property unless approved by the City. where approval is granted, a meter pit must be provided at or near the property line at the customer's expense. Meter pits to be installed in accordance with section F-3g.

4) Customer's Service Line;

a) The customer shall furnish, install, own, and maintain at his expense the necessary curb box and service line from the curb stop to the place of consumption in accordance with the requirements of the City. The customer shall keep the curb box clean and free of debris so that it provides ready access to the curb stop. Where no curb stop exists, the customer's service line shall be the entire service pipe.

b) A curb box meeting the specifications of the City shall be installed at each curb stop.

c) No service line shall serve more than one (1) building without the approval of the City.

d) Where approval has been granted for two (2) or more service lines to supply the same premises, and the service lines are interconnected, the customer must furnish, install and maintain an approved backflow prevention device on each line.

e) A gate valve or ball valve shall be provided immediately inside the building. The City reserves the right to specify location of this valve.

f) The above referenced valve (J-4-e) and adjacent piping shall be maintained by the customer in good condition to permit

operation of the valve in an emergency and to enable the City to change meter sets. If the customer fails to maintain the valve and adjacent piping in good condition, the City may make the necessary repairs or alterations at the customer's expense.

g) Where copper is used as the material for the customer's service line, one continuous run shall be made from the curb stop to the meter set.

5) Standards for Service Pipe:

a) Depth - Service pipe shall be installed with a minimum cover of four and one half feet.

b) Location:

- i) Service pipe should run at right angles to the main in a straight line to the premises to be served. The approval of the City must be secured as to the proper location of the service pipe.
- ii) The City shall determine the minimum requirement for the customer service line size which shall be in no case less than three quarters (3/4) of an inch in diameter. The City reserves the right to specify such diameter.
- iii) In the event that the City water main is not in front of the premises to be served, an extension of the City's water system will be required. Reference is made to Section W of these regulations.

c) Materials:

- i) Service pipe shall be copper, cement lined ductile iron. Or other City approved material.
- ii) Copper shall be cold drawn or soft annealed seamless copper type "K" which meets American Water Works Association (A.W.W.A.)

standard specifications for this use. No soldered joints will be allowed underground.

- iii) Cement lined ductile iron must meet A.W.W.A. specifications and be of a class suitable for the pressures and load encountered.
- iv) No other material will be used without specific written approval of the City.

d) Trenching:

- i) Service pipe shall not be laid in the same trench with other underground facilities. In order to avoid possible damage, the customer performing the excavation for a new or renewed customer service line shall arrange with the other agencies which have subsurface rights for adequate notification and inspection.
- ii) Water service pipe and house sewer lines shall be laid in separate trenches at least ten (10) feet apart unless approved by the City.
- iii) The trench shall be backfilled with acceptable material which must be thoroughly tamped to secure a firm support.

- 6) Inspection - The service connection and service pipe must be left uncovered for inspection by an authorized City representative. Final approval of the service pipe up to the meter set may be subject to a satisfactory hydrostatic test, which may be required by the City following installation of the service connection.

K. FROZEN SERVICE:- Thawing a frozen service pipe is the responsibility of the customer.

L. LEAKS AND REPAIRS - If a leak develops in a service pipe, the customer shall repair it without delay. If such repair work is not completed within a reasonable period of time specified by the City in writing to the customer, the City may discontinue service to the premises until the leak is repaired by the customer or the City repairs the leak. In either case, service will not be restored until the customer pays the entire cost incurred by the City in making repairs and/or termination of service.

M. CUSTOMER'S PLUMBING:

- 1) The plumbing in all premises served by the City shall conform to all applicable State and municipal regulations.
- 2) Where a standby tank or cistern is used by the customer it shall:
 - a) Be constructed to protect the City water system from pollution.
 - b) Conform to the provisions of Sections 19-13-B37 and B38 of the Public Health Code of the State of Connecticut, and to all other applicable regulations. {Refer to Appendix A.}
 - c) Be provided with a means of access for inspection by the City.
 - d) Be provided with an adequate drain.
 - e) Be equipped with a City approved backflow prevention device on the service pipe.
- 3) Hot water boilers shall be provided with vacuum and relief valves; and, where additives are used in the system they shall be equipped with a reduced pressure device.
- 4) In opening the valve to let water through a customer service line, the valve shall be opened gradually and some convenient faucet left open to allow air to escape.
- 5) Any device required for the regulation of pressure at the customer's

premises shall be furnished, installed, owned and maintained by the customer at his expense.

- 6) If the customer has water using devices on his premises which in the opinion of the City are a potential hazard to the water distribution system, a backflow prevention device shall be installed and maintained by the customer in accordance with State regulations.

N. SANITARY REGULATIONS - The Public Health Code of the State of Connecticut and all other applicable State and municipal regulations, certain of which are found in Appendix A including Section 19-13-B8, 19-13-B39, and 19-13-B45 of the Public Health Code shall be adhered to.

O. WATER SPRINKLER SYSTEM:

- 1) Domestic Sprinkler System:
 - a) A domestic sprinkler system is a sprinkler system which serves a premises used only for residential purposes.
 - b) A domestic sprinkler system shall be connected to the domestic service to the premises and is to be connected beyond the domestic meter.
 - c) An application for domestic sprinkler system service shall be made by the property owner consistent with Section B of these regulations.
- 2) Commercial/Industrial Sprinkler System:
 - a) A commercial/industrial sprinkler system is one which will serve a premises a part or all of which is used for commercial and/or industrial purposes.
 - b) A commercial/industrial sprinkler system is to be supplied separately from the domestic service to the premises in either of

the following manners:

- i) Separate taps on the main for adequately sized domestic and fire/sprinkler service lines are made and the domestic and fire/sprinkler service pipes are then run independently to the premises. Each service pipe shall have a shut-off valve and curb box. The domestic service pipe shall have a meter which meets the requirements outlined by these regulations. The fire/sprinkler service pipe shall be equipped with a fire detection check and meter acceptable to the City.
- ii) One tap on the main for a combined domestic and fire/sprinkler service pipe can be made. The combined domestic and fire/sprinkler service pipe shall be sized to handle all the domestic and fire flow needs of the premises being served and shall be equipped with a shut-off valve and curb box. At a point ten (10') feet outside of the building wall the domestic and fire/sprinkler services are to split. The domestic service shall be tapped into the combined domestic and fire/sprinkler service pipe and run separately into the building with the appropriate meter as outlined in these regulations. A shut-off valve shall be installed on this domestic service pipe near the tap into the combined domestic and fire/sprinkler service pipe. A shut-off valve and a fire detection check and meter are to be installed on the fire/sprinkler service pipe.

P. FIRE SERVICE - PRIVATE:

- 1) Installation - Private fire lines shall be installed in accordance with the rules and regulations covering service pipes.
- 2) Private fire lines, hydrants and appurtenances shall be maintained

by the owner at his expense.

- 3) Meters:
 - a) All sprinkler systems and private fire service lines shall be metered, or an alarm system may be installed if approved by the City. These meters must be approved by the City.
 - b) Fire detection checks and meters shall be tested and maintained by the City at the customer's expense at intervals determined by the City.
- 4) Access - City representatives shall have access to fire detection checks and alarm systems.
- 5) Use - No person shall take water from any private fire hydrant, hose plug, sprinkler system, or fire line for any purpose other than fire fighting. Test of such private system maybe performed only with the prior approval of the City.
- 6) Antifreeze solutions - For sprinkler systems supplied water by the City, the use of antifreeze solutions other than water solutions of pure glycerine (C.P. or U.S.P. 96.5% grade) or propylene glycol (U.S.P. grade) is prohibited. The use of antifreeze solutions must conform to any applicable State or local health regulations. A reduced pressure device is required.
- 7) Charges - Private fire service lines and combination service lines.
 - a) A quarterly charge for private fire service lines based on the size of the service pipe at the main is established in the City of Danbury Code of Ordinances.
 - b) A quarterly charge will be made for each combination service line based on the size of the fire service pipe at the point immediately beyond the split between the domestic and fire

service and is established in the Code of Ordinances.

Q. FIRE SERVICE - PUBLIC: Public hydrants are to be maintained by the City of Danbury. No person shall take water from any public hydrant without prior approval of the City.

R. INTERFERENCE WITH OPERATIONS:
A customer interfering with or endangering the proper operation of the City's system or its service to others is liable for any damage; and, if directed by the City shall, without delay, make any alterations to the plumbing system or water appliances as the City shall require for the safe and proper operation of its service.

S. SPECIAL REQUIREMENTS:
A customer whose water needs cannot be met adequately or safely by the regular facilities of the City may be required by the City to install additional facilities at the customer's expense. This regulation is intended to apply, but not to be limited to the delivery of adequate pressure to multi-story buildings, and/or to equipment requiring high volumes of supply for intermittent periods.

T. LIMITED SERVICE:
A limited service agreement will be required of an applicant when in the opinion of the City the premises to be served is at such an elevation that normal satisfactory minimum average water pressure may not be available. Under a limited service agreement, the applicant agrees to accept the water service furnished under such pressures as may be available.

U. CITY RESPONSIBILITIES:

- 1) The City undertakes to supply its customers with water which meets the requirements of the State Department of Health Services, and which has such physical and chemical properties to make it acceptable for domestic use. However, the City does not undertake to render any special service, to maintain any fixed pressure, or to deliver any fixed quantity of water.
- 2) The City shall not be liable for any damage to personal property sustained as a result of a break, failure or accident in or to its system or any part thereof, which is not due to the City's negligence, or which, being known to the customer was not reported by the customer in time to avoid such damage.
- 3) From time to time the City may temporarily discontinue water service to flush its mains or to make necessary repairs or alterations. In such an event the City will make every reasonable effort to notify its customers in advance of such interruption.

V. CONSERVATION OF WATER:

- 1) The City may restrict the use of the water by any customer or class of customers when in its judgment such restriction is in the best interest of the public.
- 2) A customer shall repair or alter his service line, plumbing system or water using equipment when in the City's opinion, the customer's installation operates wastefully.
- 3) Air Conditioners: No customer shall use or install any air conditioning system unless such system is desired to recirculate water.
- 4) Car Washes: No customer shall use or install any car washing system unless such system is designed to recirculate water.

W. WATER MAIN EXTENSIONS:

- 1) Where water service is desired for a premises, an adequate water main must exist in a location which will allow a right angle service pipe to be run between the main and the premises. Where such a service pipe connection cannot be made, an extension of the City water main will be required. Whenever it is determined by the City Engineer and the Superintendent of Public Utilities that a right angle service pipe is impractical because of site layout, topography, geography, soil or other field or engineering conditions, the City Engineer and the Superintendent of Public Utilities will determine the manner in which the service pipe is to be installed and the point to which a water main is to be extended if an extension is required.
- 2) Common Council approval is required for all water main extensions. Petition forms for extensions can be obtained at the office of the City Clerk.
- 3) The petitioner shall bear all costs relative to the installation of the water main.
- 4) If the petition is approved by the Common Council, the petitioner shall have detailed engineering plans and specifications, prepared by a State of Connecticut licensed engineer and submitted to the City Engineer and the Superintendent of Public Utilities for review and approval prior to the start of construction.
- 5) All water main extension installations are to be inspected by the Public Works Department. Prior to acceptance by the City, all mains must be disinfected, flushed and pressure tested in manners acceptable to the Public Works Department.

- 6) Once construction of the water main extension is completed, the petitioner shall submit as-built drawings of this extension. These drawings are to be prepared by a licensed Connecticut Land Surveyor and are to be satisfactory to the City Engineer.
- 7) Upon completion of the extension, title to the water main extension and/or water facilities as well as to any easement through property upon which is located all or such portions of the water main and/or water facilities as the City Engineer's office determines are of potential benefit to other landowners in the City shall be conveyed to the City. In addition, the City Engineer may require the conveyance of easements through other property upon which no water mains or related water facilities are located but which may be of benefit to the City of Danbury for purposes of future water main extensions or water system improvements. Should another, other than the petitioner, hold title to any land involved in the system improvements, then all necessary easements shall be obtained from any such property owner prior to the commencement of any construction. All legal documents submitted are to be in forms satisfactory to the Corporation Counsel and City Engineer
- 8) No Certificate of Occupancy shall be issued until the above noted forms, documents, plans, etc. are received and the City owns the extended water mains and other system improvements.
- 9) A time limit for the completion of the water main extension shall be set by the Common Council.
- 10) All water main extensions are to be constructed in accordance with City standards and specifications for size, materials, methods of construction and other criteria.

X. STANDARDS & SPECIFICATIONS FOR DESIGN AND CONSTRUCTION: The Public Works Department is hereby authorized to promulgate minimum standards and specifications for design and construction of its water works.



ADDENDUM TO

RULES AND REGULATIONS

CITY OF DANBURY WATER DEPARTMENT

May 1, 1988

ADDENDUM TO RULES & REGULATIONS
CITY OF DANBURY WATER DEPARTMENT

Paragraph F, 3 b (Page 6) is changed to read as follows:

- b) Water meters greater than one (1) inch in size installed after September 29, 1987 shall become the property of the City and will be furnished and installed by the customer at no cost to the City.

Paragraph F, 3 c (Page 6) is changed to read as follows:

- c) Water meters greater than one (1) inch in size installed prior to September 29, 1987 shall remain the property of the customer until such time as the customer complies with Section F-8.

Paragraph F5 (Page 7) is changed to read as follows:

- 5) Maintenance of Meters- All meters one (1) inch and smaller in size shall be maintained by the City at no cost to the customer. Meters larger than one (1) inch in size which are owned by the City shall be maintained by the City at the customer's expense. Meters larger than one (1) inch in size which are owned by the customer shall be maintained by the City at the customer's expense. Damage to all meters due to freezing, hot water, or external causes shall be paid for by the customer and the customer shall be liable to the City for all damage to said meter which results from the customer's negligence.

Paragraph J2 (Page 12) the following is added to the end of this paragraph.

A demolition release shall not be issued until all water and sewer charges are paid in full.

Paragraph J4 (Page 17) the following paragraph is added.

- h) The customer shall install and maintain a check valve on the ingoing service line.

Appendix A (Pages A-I thru A-5) is added.

Appendix A

Rules and Regulations

19-13-B37. Cross connections between water supplies prohibited

No physical connection between the distribution system of a public water system and that of any other water supply shall be permitted, unless such other water supply is of safe sanitary quality and the interconnection of both supplies is approved by the State Department of Public Health. No officer, board, corporation or other person or group of persons, owning, managing or controlling any public water system, shall provide new water service to a site where any person, firm or corporation either maintains such connection or is not in compliance with Section 19-13-B38a of the Regulations of Connecticut State Agencies at this location. Upon written order by the local health department or the Department of Public Health, an officer, board, corporation or other person or group of persons, owning, managing or controlling any public water system, shall terminate existing water service to a site where any person, firm or corporation either maintains such connection or is not in compliance with Section 19-13-B38a of the Regulations of Connecticut State Agencies at this location. (Effective June 25, 1985; Amended July 7, 1993; Amended effective December 5, 2001.)

19-13-B38a. Permissible arrangements for connections to public water supply lines

(a) Definitions. As used in this section:

- (1) "Air gap" means the unobstructed vertical distance through the free atmosphere between the lowest opening from any pipe or outlet supplying water to a tank plumbing fixture, or other device, and the flood level rim of the receptacle. The vertical physical separation shall be at least two times the inside diameter of the water inlet pipe above the flood rim level but shall not be less than one inch;
- (2) "Air vent type backflow preventer" means a device containing two independently operating check valves separated by a chamber which can automatically vent to the atmosphere if backflow occurs;
- (3) "Atmospheric vacuum breaker" means a mechanical device which automatically air vents a pipeline to prevent backsiphonage;
- (4) "Double check valve assembly" (DCVA) means a device which contains two independently acting check valves located between two tightly closing shut-off valves and fitted with properly located test cocks;
- (5) "Fire sprinkler system" for fire protection purposes means an integrated system of underground and overhead piping designed to provide fire protection for a building or structure. The installation includes one or more automatic water supplies. The portion of the sprinkler system above-ground is a network of specially sized or hydraulically designed piping installed in a building, structure, or area generally overhead, and to which sprinklers are attached in a systematic pattern. The valve controlling each system riser is located in the sprinkler riser or its supply piping. Each sprinkler system riser includes a device for actuating an alarm when the system is in operation. The system is usually activated by heat from a fire and discharges water over the fire area;
- (6) "Hose bibb vacuum breaker" means an atmospheric vacuum breaker designed to be attached to an outlet having a hose connection thread;
- (7) "Owner" means the customer of a public water system;
- (8) "Pressure vacuum breaker" means a device which contains a spring loaded check valve and a spring loaded atmospheric vent which opens when the pressure

approaches atmospheric. The unit shall include two tightly closing shut-off valves located at each end of the device and two test cocks properly located for testing the device;

(9) "Reduced pressure principle backflow preventer" (RPD) means a device containing within its structure a minimum of two independently acting, approved check valves, together with an automatically operating pressure differential relief valve located between the two check valves. The first check valve reduces the system pressure a predetermined amount so that during normal flow and a cessation of normal flow the pressure between the checks shall be less than the system pressure. In case of leakage of either check valve, the differential relief valve, by discharging to atmosphere, shall operate to maintain the pressure between the checks less than the system pressure. The unit shall include tightly closing shut-off valves located at each end of the device and each device shall be fitted with properly located test cocks;

(10) "Siamese connection" means an inlet equipped with one or more couplings to which a fire hose can be attached and through which water can be delivered by a fire department pumper to a sprinkler system; and

(11) "Toxic or objectionable substance" means any compound which could affect the public health, the potability, or the aesthetic quality of the water.

(b) Air Gap. An air gap is required between all potable water lines and equipment or systems which may be subject to contamination.

(c) Reduced pressure principle backflow preventer.

(1) A reduced pressure principle backflow preventer (RPD) is required on a line to all facilities where toxic or objectionable substances are used in addition to the required air gap, vacuum breaker or RPD on individual pieces of equipment unless the public water system has determined that an RPD is not necessary. Where such substances are used in a specific area, an RPD on the line to that area may be used in place of the RPD on the line to the facility.

(2) The owner shall install a reduced pressure principle backflow preventer (RPD) or an air gap in the following instances:

(A) On a line to fire sprinkler systems (including tanks) where chemicals are added or to foam fire fighting systems;

(B) On a line to pressurized water systems on ships;

(C) On a line used to supply car wash facilities where pressure is boosted;

(D) On a line to irrigation or lawn sprinkler systems where chemicals are added;

(E) On a line to all boiler systems where chemicals are added;

(F) On a line to heat exchangers where chemicals are added;

(G) On a line to solar heating systems where chemicals are added;

(H) On a line to plating tanks or areas. No potable water use will be allowed downstream of the device pursuant to section 19-13-B38a(e)(2) of the Regulations of Connecticut State Agencies.

(3) Unless otherwise required by sections 19-13-B38a(b) or 19-13-B38a(c) of the Regulations of Connecticut State Agencies, the owner shall install either an RPD or an air vent type backflow preventer or an air gap in the following instances:

- (A) Water supply lines to all boiler systems where chemicals are not added;
- (B) Water supply lines to carbonators for beverage machines, water conditioning systems, and commercial ice making equipment;
- (C) Water supply lines connected to solar heating systems where chemicals are not added and heat exchangers where chemicals are not added;
- (D) Water supply lines to storage tanks used for fire protection where chemicals are not added.

(d) Double Check Valve Assembly. The owner shall install a double check valve assembly (DCVA) on public water supply lines to fire sprinkler systems with siamese connections unless chemicals are added to the fire sprinkler system. Where chemicals are added to such systems, the owner shall install an RPD pursuant to Section 19-13-B38a(c)(2)(A) of the Regulations of Connecticut State Agencies. An owner may install an RPD instead of a DCVA on public water supply lines to fire sprinkler systems with siamese connections.

(e) Vacuum breaker. The owner shall install either an atmospheric vacuum breaker or a pressure vacuum breaker or an air gap in the following instances:

- (1) Irrigation or lawn sprinkler systems where chemicals are not added;
- (2) Flush valve toilets;
- (3) Inlets which are or may become submerged, except where an RPD is required pursuant to section 19-13-B38a(c)(2) of the Regulations of Connecticut State Agencies;
- (4) Hemodialysis units;
- (5) At marinas and docks on all hose bibbs or other outlets to which a hose may be connected.

(f) Installation and maintenance. The devices required by section 19-13- B38a of the Regulations of Connecticut State Agencies shall be purchased, owned, installed, and maintained by the owner in compliance with the following conditions:

- (1) New devices shall conform to the revision of American Water Works Association Standard C510, C511 or the revision of the applicable standard of the American Society of Sanitary Engineering in effect at the time of building permit application.
- (2) There shall be no connection made for potable water use downstream of an RPD and upstream of the equipment or systems subject to contamination except where the device is installed on the service line and the required air gap, vacuum breaker, or RPD is provided on all individual pieces of equipment.
- (3) Each RPD, DCVA and pressure vacuum breaker shall be located in a room or structure that is well lighted, properly drained, and not subject to flooding. These devices shall be easily accessible for repair, testing and inspection.
- (4) There shall not be any bypass around a device without appropriate protection as required by Section 19-13-B38a of the Regulations of Connecticut State Agencies.

(5) If an RPD or DCVA cannot be removed from service for maintenance and testing during normal working hours, then a second device of the same type shall be installed in parallel so as to permit inspection and repair of either unit.

(6) The owner shall notify the public water system prior to the installation of any RPD, DCVA or pressure vacuum breaker required by Section 19-13-B38a of the Regulations of Connecticut State Agencies. Immediately after installation of such devices, the owner shall arrange for the public water system to have each device tested by a person who has met the requirements of Section 25-32-11(e) of the Regulations of Connecticut State Agencies.

(7) The public water system shall have each RPD, DCVA and pressure vacuum breaker tested annually and shall maintain records of the test. Any malfunctioning device shall be promptly restored to proper operating condition by the owner. A summary of the results shall be forwarded to the Department of Public Health as a part of the annual cross connection survey report. All tests must be performed by a person who has met the requirements of Section 25-32-11(e) of the Regulations of Connecticut State Agencies.

(8) Atmospheric vacuum breakers shall be located beyond the last control valve prior to the first outlet. All vacuum breakers shall be installed at an elevation higher than any outlet according to manufacturers instructions.

(9) An atmospheric vacuum breaker shall be installed so that it is not subject to backpressure or continuous operating pressure of more than twelve (12) hours duration. Where vacuum breakers are to be installed under section 19-13- B38a(d) of the Regulations of Connecticut State Agencies and a continuous operating pressure exists, a pressure vacuum breaker shall be used.

(10) An atmospheric vacuum breaker shall be installed in such a fashion that it will not be subject to corrosion which will render it inoperative.

(11) The owner is responsible for complying with all building, plumbing, fire safety or other applicable codes, regulations or requirements.

(g) Civil Penalties.

(1) Notice of violation. When the Commissioner determines that a violation of Section 19-13-B38a(d) of the Regulations of Connecticut State Agencies has occurred or is occurring, the commissioner may so notify the violator and may impose a civil penalty in accordance with this subsection if compliance is not achieved by the date specified in the notice of violation.

(2) Appeals. Within twenty days (20) after such notice is sent by the commissioner, an owner in receipt of a notice of violation issued pursuant to this subsection may petition the commissioner in writing, by U.S. mail, certified or registered, postage prepaid, return receipt requested, for an opportunity to contest the determination that a violation occurred, the determination a violation has not been corrected, the initial date of the imposition of the penalty, and the imposition of a penalty.

(3) Penalty. Failure to install a device required pursuant to Section 19-13-B38a(d) of the Regulations of Connecticut State Agencies shall result in a penalty of not more than \$2000.

(Effective March 7, 1989; Amended July 7, 1993; Amended effective December 5, 2001.)

19-13-B39. Quality of water supplies made available for public and for employees. No water supply shall be used or rendered available for drinking and for other personal or domestic purposes in any industrial plan, mercantile establishment, hotel, lodging or boarding house, tenement house, hospital, theatre, park or public building, or on any outdoor or construction work, unless such supply is of safe sanitary quality approved by the state department of health. If a water supply for industrial or fire protection purposes is obtained entirely or in part from a source not approved for drinking purposes, this supply shall be distributed through an independent piping system having no connection with the systems for drinking and for other domestic use.

19-13-B45. Minimum requirements for drainage and toilet systems.

(a) Plumbing and drainage systems shall be so constructed as to avoid contamination of safe drinking water supplies in houses or buildings. There shall be no cross connections between such safe water supplies and unsafe water supplies nor shall such safe supplies be piped to refrigeration, air conditioning or other mechanical equipment provided with direct connections to drains or constructed in such a manner as to permit contaminated water to be siphoned or drawn into the water supply pipes. Storage of drinking water in buildings shall be only in covered tanks so constructed as to avoid any possible contamination of the water in the tanks. Sewer or waste lines located above storage tanks and direct overflows and drains to sewer systems are expressly prohibited.

(b) Buildings in which water closets and other plumbing fixtures exist shall be provided with a supply of water adequate in volume and pressure for flushing purposes.

(c) The pipe system shall be of sufficient size to supply water for adequate flushing of toilet fixtures without unduly reducing the pressure at other fixtures.

(d) Devices for heating water and storing it in "boilers" or hot water tanks shall be so designed and installed as to prevent all dangers from explosion.

(e) Each tenement, lodging or boarding house located on premises abutting any street or alley where running water is available and through which there is a sewer with which connection may be had shall be provided with water closets connected with such sewer. All other buildings used or intended to be used for human habitation or occupancy on premises abutting a street in which there is a public sewer shall be connected with such sewer whenever required by the local authorities having jurisdiction.

(f) Tenement houses erected prior to September 1, 1930, and provided with house drainage systems shall be furnished with at least one water closet for each two apartments of three rooms or less each, and one such closet for each apartment of four or more rooms. Tenement houses erected after August 31, 1930, and prior to July 1, 1941, shall have a water closet in each apartment of three or more rooms and at least one water closet for each two

apartments of less than three rooms each. In each tenement house erected or subdivided after June 30, 1941, there shall be a water closet in each apartment of two or more rooms.

(g) Plumbing fixtures shall be made of smooth non absorbent material, shall be free from concealed fouling surfaces and shall be set free of enclosures.

(h) The entire house drainage system shall be so designed, constructed and maintained as to conduct the waste water or sewage quickly from the fixture to the place of disposal with velocities which will guard against fouling and the deposit of solids and will prevent clogging.

(i) The drainage pipes shall be so designed and constructed as to be proof for a reasonable life of the building against leakage of water or drain air due to defective materials, imperfect connections, corrosion, settlements or vibrations of the ground or building, temperature changes, freezing or other causes.

(j) The drainage system shall be provided with an adequate number of cleanouts so arranged that in case of stoppage the pipes may be readily accessible.

(k) Each fixture or combination fixture shall be provided with a separate, accessible, self-scouring, reliable water-seal trap placed as near to the fixture as possible.

(l) The house-drainage system shall be so designed that there will be an adequate circulation of air in all pipes and no danger of siphonage, aspiration or forcing of trap seals under conditions of ordinary use.

(m) The soil stack shall extend full size upward through the roof and have a free opening, the roof terminal being so located that there will be no danger of air passing from it to any window and no danger of clogging of the pipe by frost or by articles being thrown into it or of roof water draining into it.

(n) The plumbing system shall be subjected to a water or air-pressure test and to a final air-pressure, smoke or peppermint test in such a manner as to disclose all leaks and imperfections in the work.

(o) No substances which will clog the pipes, produce explosive mixtures or destroy the pipes or their joints shall be allowed to enter the house drainage system.

(p) Refrigerators, ice boxes or receptacles for storing food shall not be connected directly with the drainage system.

(q) No water closet shall be located in a room or compartment which is not properly lighted and ventilated to the outer air.

(r) If water closets or other plumbing fixtures exist in buildings where there is no public sewer accessible, suitable provision shall be made for disposing of the sewage without nuisance. The location and construction of private sewage disposal systems shall conform to the requirements of sections 19-13-B20a to 19-13-B20r, inclusive.

(s) Where a house-drainage system may be subjected to back flow of sewage, suitable provision shall be made to prevent its overflow in the building.

(t) No plumbing fixture nor waste outlet shall be installed which will provide a cross connection between a distributing system of water for drinking and domestic purposes and a drainage system, soil or waste pipe and permit or make possible the back flow or siphonage of sewage or waste into the water supply.

Note: Attention is directed to the danger from under-rim water inlet fixtures and flushometer valves without adequate vacuum breakers.

(u) All drinking fountain installations or replacements after January 12, 1954, shall be constructed with a slanting jet issuing from a nozzle of non-oxidizing impervious material with a non-oxidizing guard to prevent the mouths and noses of persons using the fountain from coming in contact with the nozzle. The jet shall be located so as not to touch the guard and shall be discharged at such an angle that the water can neither fall back nor be forced back on to the point of discharge. The fountain jet and all openings in the water supply piping shall issue above the level of the fountain bowl. The drainage from the bowl shall be adequate and so constructed as to prevent fouling of the bowl. The drain from the fountain shall not have a direct physical connection to a waste pipe unless the drain is trapped. The waste opening and pipe from the fountain shall be of sufficient size to carry off the water promptly. The opening shall be provided with a strainer. All drinking fountains installed after January 12, 1954, shall be provided with their own receiving bowls and shall not be installed over sinks used for hand washing or other purposes.

(v) Plumbing systems shall be maintained in a sanitary condition.
(Effective December 21, 1978.)